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25 Metro Drive San Jose, CA			ART UNIT	PAPER NUMBER
San Jose, CA	73110-1347		3629	-

DATE MAILED: 02/28/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Office Action Summary Office Action Summary The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Serentians of time may be available under the positions of 37 CFR 1.35(a). In no event, however, may a reply be timely filed If the period for reply specified above its the shirthy (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If the period for reply specified above its less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If the period to reply specified above its less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If the period to reply specified above its less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If the period to reply specified above its less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If the period to reply specified above its less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If the period to reply specified above its less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If the period to reply specified above its less than thirty (30) days, a reply within the statutory minimum of thirty (30) days the considered timely. If a period to reply specified above its less than thirty (30) days, a reply within the statutory minimum of thirty (30) days the considered timely. If a period to reply specified days the minimum days are period to reply to the days of the period to the minimum days of the days of the period to days are required in reply to this office action. If approved, corrected drawing
Examiner Art Unit 3629
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edensions of time may be available under the provisions of 37 CFR 1.39(a). In no event, however, may a reply be timely filed after 51X (6) MONTH'S from the maling date of this communication. If the period for reply is operified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is one vent above, the maximum statutory period will apply early eSIX (6) MONTH'S from the maling date of this communication. Failure trappy within the sat or extended period for reply will, status, cause the application to become ASAMONDEN 50 St. S. 133. Responsive to communication(s) filed on 29 December 2000. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) Claim(s) 1-22 is/are rejected. 7) Claim(s) is/are allowed. 6) Claim(s) are subject to restriction and/or election requirement. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of the pri
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13(s). In no event, however, may a reply be timely filled after Stx (S MONTHS from the mailing date of this communication. - If the period for reply is specified above, the mailing date of this communication or the provision of the mailing date of this communication. - If the period for reply is pecified above, the mailing date of this communication to become ABANDONED (35 U.S.C. § 133). - If NO period for reply is pecified above, the mailing date of this communication to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any search advantage and even advantage and reduced the mailing date of this communication, even if timely filled, may reduce any search advantage and reduced the mailing date of this communication, even if timely filled, may reduce any search and reduced the provided timely. 1) □ Responsive to communication(s) filled on 29 December 2000. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 7) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to by the Examiner. 10) □ The greenification is objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) □ The proposed drawing correction filled on is/are: a) □ approved b) □ disapproved by the Examiner. If approved, corrected drawings are
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2. Certified copies of the priority documents have been received in Application No
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received. 15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.
Attachment(s)
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3.5 4) Interview Summary (PTO-413) Paper No(s). 5) Notice of Informal Patent Application (PTO-152) 6) Other:

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DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description:

A-A, B-B. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to because a bracket should embrace figures 1 and 4.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 62, 102a, 102b. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities:

Page 11, line 16, change from "108 110" to "108, 110".

Page 11, line 24, change from "12" to "102".

Appropriate correction is required.

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 7-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 7 and 13 recites the limitation "the joint" in line 1. There is insufficient antecedent basis for this limitation in the claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1, 2, 4-8, 10-14 and 16-22 are rejected under 35 U.S.C. 102(e) as being anticipated by US patent 6170883, Mattsson et al.

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In regards to claim 1, Mattsson et al discloses a duct joining system, comprising a first duct (11) having a male end, the first duct having a first bead (12) on the male end; a flexible seal and locking mechanism (13) retained on the male end of the first duct between the first bead and an end of the first duct; and a second duct (21) having a female end having a first cross sectional area and a second bead (23) of a second cross sectional area that is greater than the first cross sectional area, the second duct may be joined to the first duct by sliding the female end over the male end, the flexible seal and locking mechanism being compressed within the first cross sectional area, the flexible seal and locking mechanism expanding into the second bead to form both a seal and a mechanical lock that provides resistance to the separation of the first duct and the second duct greater than the resistance to the joining of the first duct and the second duct.

In regards to claim 2, Mattsson et al discloses the flexible seal and locking mechanism being a flexible gasket held on the male end at an angle (zero degrees) relative to normal and away from the end of the first duct.

In regards to claim 4, Mattsson et al discloses the first bead acting as a stop bead to ensure the second duct is properly positioned with the first duct when the first duct and the second duct are joined.

In regards to claim 5, Mattsson et al discloses a third bead (11a) on the first duct located between the flexible seal and locking mechanism and the end of the first duct, wherein the third bead has a diameter that is less than the diameter of the first bead.

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In regards to claim 6, Mattsson et al discloses one of the first duct and the second duct being a fitting.

In regards to claim 7, Mattsson et al discloses a duct joining system that simultaneously seals and locks the joint in place consisting of a first duct having a female end, the first duct having a first bead on the female end; a flexible seal and locking mechanism retained within the female end of the first duct between the first bead and an end of the first duct; and a second duct having a male end having a first cross sectional area and a second bead of a second cross sectional area that is less than the first cross sectional area, the second duct may be joined to the first duct by sliding the female end over the male end, the flexible seal and locking mechanism being compressed by the first cross sectional area, the flexible seal and locking mechanism expanding into the second bead to form both a seal and a mechanical lock that provides resistance to the separation of the first duct and the second duct greater than the resistance to the joining of the first duct and the second duct.

In regards to claim 8, Mattsson et al discloses the flexible seal and locking mechanism being a flexible gasket held on the female end at an angle relative to normal and away from the end of the first duct.

In regards to claim 10, Mattsson et al discloses the first bead acting as a stop bead to ensure the second duct is properly positioned with the first duct when the first duct and the second duct are joined.

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In regards to claim 11, Mattsson et al discloses third bead on the first duct located between the flexible seal and locking mechanism and the end of the first duct, wherein the third bead has a diameter that is greater than the diameter of the first bead.

In regards to claim 12, Mattsson et al discloses one of the first duct and the second duct being a fitting.

In regards to claim 13, Mattsson et al discloses a duct joining system that seals and locks the joint in place consisting of a first duct having a male end, the first duct having a first bead on the male end; a flexible seal and locking mechanism retained on the male end of the first duct between the first bead and an end of the first duct; and a flexible duct that may be joined to the first duct by sliding the flexible duct over the flexible seal and locking mechanism, the flexible seal and locking mechanism expanding within the flexible duct to form both a seal and a mechanical lock that provides resistance to the separation of the first duct and the flexible duct.

In regards to claim 14, Mattsson et al discloses the flexible seal and locking mechanism being a flexible gasket held on the male end at an angle relative to normal and away from the end of the first duct.

In regards to claim 16, Mattsson et al discloses a second bead on the first duct located between the flexible seal and locking mechanism and the end of the first duct, wherein the second bead has a diameter that is less than the diameter of the first bead.

In regards to claim 17, Mattsson et al discloses the first duct being a fitting.

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In regards to claim 18, Mattsson et al discloses an apparatus comprising a first duct; a second duct, wherein a portion of the first duct is inserted into a portion of the second duct; and a sealing means for providing a seal and a mechanical connection between the first duct and the second duct when the portion of the first duct is inserted into a portion of the second duct.

In regards to claim 19, Mattsson et al discloses the second duct having a raised bead into which the sealing means is seated to form the seal and the mechanical connection when the portion of the first duct is inserted into the portion of the second duct.

In regards to claim 20, Mattsson et al discloses the first duct having a depressed bead (17) into which the sealing means is seated to form the seal and the mechanical connection when the portion of the first duct is inserted into the portion of the second duct.

In regards to claim 21, Mattsson et al discloses the sealing means being a flexible gasket.

In regards to claim 22, Mattsson et al discloses the first duct having a first bead, the flexible gasket being mounted closer to the front of the first duct than the first bead, the flexible gasket having an angle relative to normal of the first duct.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3, 9 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mattsson et al.

In regards to claims 3, 9 and 15, Mattsson et al discloses the invention except for the resistance to the separation of the first duct and the second duct being at least three times greater than the resistance to the joining of the first duct and the second duct. It would have been obvious to one having ordinary skill in the art at the time the invention was made to optimize the resistance to the separation of the first duct and the second duct to at least three times greater than the resistance to the joining of the first duct and the second duct, since the optimization of proportions in a prior art device is a design consideration within the skill of the art. <u>In re Reese</u>, 290 F.2d 839, 129 USPQ 402 (CCPA 1961).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron M Dunwoody whose telephone number is (703) 306-3436. The examiner can normally be reached on Monday - Friday between 7:30 am to 4:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H Browne can be reached on (703) 308-1159. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-7687 for regular communications and (703) 305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

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February 25, 2002

Lynne H. Browne Supervisory Patent Examiner Technology Center 3620

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